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Letter to Editor

Bacillus Cereus Affects Several Hormone Signalling and Carbohydrate Metabolism Pathways in Nicotinic Tabacum

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Bacillus cereus is regarded to be useful to plants in a number of ways, including increasing plant growth and producing disease resistance. However, no thorough information on the e ect of Bacillus cereus on Nicotiana tabacum has been published [1]. e molecular mechanisms of the interaction between B. cereus and N. tabacum were identi ed using RNA-based sequencing in the current work. From Bacillus cereus-inoculated leaves at 6 and 24 hours post-inoculation, a total of 7345 and 5604 di erentially expressed genes were found. Plants and microorganisms have a complicated relationship that has evolved over time. Ralstonia solanacearum, Agrobacterium tumefaciens, and Dickeya spp. are only a few examples of pathogens that can a ect plants Wilt disease is caused by the vascular pathogen Ralstonia solanacerarum; crown gall disease is caused by the biotrophic tumorigenic pathogen Agrobacterium tumefaciens; and so -rot disease is caused by Dickeya spp., a potent apoptotic pathogen. Some microorganisms, on the other hand, can behave as commensal organisms, which can help plants grow and develop, as well as increase their tolerance to biotic and abiotic stress.. Streptomyces spp. and its metabolites, for example, have been discovered to have antagonistic e ects on a variety of fungal and bacterial phytopathogens, as well as the ability to boost plant growth productivity in a variety of crops.

Bacillus cereus is a Gram-positive pathogen that causes a wide variety of diseases in humans. It secretes into the extracellular milieu proteins that may contribute directly or indirectly to its virulence. EntD is a novel exoprotein identi ed by proteogenomics of B. cereus [2-5]. We constructed a mutant and analyzed the impact of entD disruption on the cellular proteome and exoproteome isolated from early, late, and

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